

Requirements

- Perl version 5.5 or higher
- AFS header files and AFS system libraries from OpenAFS (any) or IBM/Transarc AFS (version 3.6)
- C compiler (e.g gcc)

Restrictions

- no support for IBM/Transarc AFS system libraries version 3.4 or 3.5



Features (2)

- AFS::VLDB: Access to VLDB related functions
- AFS::VOS: Access to Volume Location Server
- AFS::BOS: Access to Basic Overseer Server
- AFS::KAS: Access to Authentication Server routines
- AFS::KTC_TOKENS: Manage Kernel Token Cache
- AFS::KTC_PRINCIPAL: Deal with principals
- AFS::KTC_EKEY: Deal with encryption keys



VOS Example

Output OpenAFS VOS listpart command

```
>/usr/afsws/etc/vos listpart lnxsrv
```

The partitions on the server are:

```
    /vicepa
```

```
Total: 1
```

Output AFSPerl example script

```
>~/afsperl/examples/v2/vos/listpart lnxsrv
```

The partitions on the server are:

```
    /vicepa
```

```
Total: 1
```



VOS Example Script

```
#!/usr/local/bin/perl -w
use strict;
use AFS::VOS;
die "Usage: $0 server \n" if $#ARGV < 0;
my $server = shift;

my $vos = AFS::VOS->new;
my @partlist = $vos->listpart($server);
print "The partitions on the server are:\n";
foreach (@partlist) {
    print "\t$_\n";
}
print "Total: ", $#partlist + 1, "\n";
```

FS Example

Output OpenAFS FS whichcell command

```
>/usr/afsws/bin/fs whichcell .
```

```
File . lives in cell 'mpa-garching.mpg.de'
```

Output AFSPerl example script

```
>~/afsperl/examples/v2/cell/whichcell .
```

```
File . lives in cell 'mpa-garching.mpg.de'
```



64 bit Platforms (1)

This is the most asked question for the last few years

- Is it running on 64 bit Platforms?

Like Radio Yerevan: In principle yes ... **BUT**



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If you use an "unthreaded" Perl version, it is working out of the box.

But unfortunately most Linux distributions come with a "threaded" Perl version.



64 bit Platforms (2)

For a "threaded" Perl it has to be linked against the threaded AFS libraries

- "libafsrpc" and
- "libafsauthent".

But these two libraries have to be PIC coded.

For the current OpenAFS version 1.4.12.1 there are no PIC versions included.

Most probably they will be included in the next OpenAFS version 1.4.13

I have a patch available for the OpenAFS version 1.4.12 to build these two libraries.



Future Plans

Short Term

- Release version 2.6.3 which will support OpenAFS 1.4.12

Mid Term

- With the next major release **2.8.0** the modules for KAS server will not be supported any more.
- For Kerberos 5 use the CPAN Perl modules
 - Authen::Krb5 and
 - Authen::Krb5::Admin



